

Commonwealth of Massachusetts
Department of Telecommunications and Energy
Fitchburg Gas and Electric Light Company
Docket Nos. D.T.E. 02-24/25
Responses to the Department's Sixth Set of Information Requests

Request No. DTE 6-29 (Gas):

Refer to work papers supporting Sch. JLH-6 (Gas) Exh. 12. Please explain the derivation of the historical plant investment data.

Response:

The historical plant data shown on workpapers supporting Schedule JLH-6 (Gas) Exhibit 12 (reference page 10 of the workpapers), came from DOT reports. In the DOT report, the total miles of main are shown at end of year. The total amount of new mains installed is therefore the difference in the total company miles of main between the current year and the prior year. Also, the amount of mains replaced is shown for each year in the DOT report. Attachment DTE-6-29 provides the DOT reports for 1997 through 2001. A conversion factor of 5,286 ft/mile was used in error in calculating the amounts shown on page 10 of the workpapers, however, since the mileage shown on the DOT report is rounded to the nearest mile the error has no significance.

The unit cost of mains is calculated using the company estimating model which is updated every year with information regarding costs (e.g. stock costs, material costs, labor costs, etc.). For each year from 1989 through 2001, a sample project was used for that year and the project was run through the estimating model for that year resulting in the estimated unit cost per foot of main installed.

Person Responsible: James L. Harrison



U.S. Department of Transportation
Research and Special Programs
Administration

ANNUAL REPORT FOR CALENDAR YEAR 19 97 GAS DISTRIBUTION SYSTEM

INITIAL REPORT ☒

SUPPLEMENTAL REPORT ☐

DTE-02-2425 (Gas)
Attachment DTE-6-29
Page 1 of 10

PART A - OPERATOR INFORMATION

DOT USE ONLY

1. NAME OF COMPANY OR ESTABLISHMENT

Fitchburg Gas and Electric Light Company 15201010

3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (WHEN KNOWN)

2. LOCATION OF OFFICE WHERE ADDITIONAL INFORMATION MAY BE OBTAINED

285 John Fitch Highway

Number and Street

Fitchburg Worcester

City and County

Massachusetts 01420-5993

State and Zip Code

4. HEADQUARTERS NAME & ADDRESS IF DIFFERENT

5. STATES IN WHICH SYSTEM OPERATES Massachusetts

PART B - SYSTEM DESCRIPTION

Report miles of main and number of services in system at end of year.

1. GENERAL

	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	OTHER
	UNPROTECTED		CATHODICALLY PROTECTED							
	BARE	COATED	BARE	COATED						
MILES OF MAINS		82		117	20	83	3			
NO. OF SERVICES		1521		2812	781	6147				

2. MILES OF MAINS IN SYSTEM AT END OF YEAR

MATERIAL	UNKNOWN	2" OR LESS	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8" THRU 12"	OVER 12"
STEEL		59	82	58		
DUCTILE IRON			3			
COPPER						
CAST/WROUGHT IRON		3	64	14	1	1
PLASTIC						
1. PVC						
2. PE		7	9	4		
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		69	158	76	1	1

3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

AVERAGE SERVICE LENGTH 55 FEET

MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"
STEEL		2821	1465	47		
DUCTILE IRON						
COPPER						
CAST/WROUGHT IRON		397	5746	4		
PLASTIC						
1. PVC		483	286	12		
2. PE						
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		3701	7497	63		

PART C - TOTAL LEAKS			PART D - TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED FOR REPAIR	
CAUSE	ELIMINATED/REPAIRED DURING YEAR		<div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;">0</div>	
	Mains	Services		
CORROSION	4	4	PART E - PERCENT OF UNACCOUNTED FOR GAS Unaccounted for gas as a percent of total input for year ending 6/30 <u>4</u> = <u>1</u> %	
THIRD PARTY	0	2		
OUTSIDE FORCE	16	4		
CONSTRUCTION DEFECT				
MATERIAL DEFECT				
OTHER	183	0		
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR			<div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;">71</div>	
PART F - ADDITIONAL INFORMATION <div style="border: 1px solid black; height: 150px; margin-top: 5px;"></div>				
PART G - PREPARER AND AUTHORIZED SIGNATURE <div style="border: 1px solid black; padding: 10px; margin-top: 5px;"> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <div> <u>Charles E. Christensen</u> <small>Prepared by (type/print)</small> </div> <div> <u>978 / 353-3210</u> <small>telephone</small> </div> </div> <div style="display: flex; justify-content: space-between;"> <div> <u>Charles E. Christensen</u> <u>Manager, Engineering</u> <small>Name and Title of Person Signing</small> </div> <div> <u>978 / 353-3210</u> <small>telephone</small> </div> <div style="text-align: right;"> <small>Authorized Signature 3/6/98</small> </div> </div> </div>				

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	ANNUAL REPORT FOR CALENDAR YEAR 1998 GAS DISTRIBUTION SYSTEM	INITIAL REPORT <input checked="" type="checkbox"/> SUPPLEMENTAL REPORT <input type="checkbox"/>																																										
U.S. Department of Transportation Research and Special Programs Administration																																												
PART A - OPERATOR INFORMATION DOT USE ONLY		DOT USE ONLY																																										
1. NAME OF COMPANY OR ESTABLISHMENT <u>Fitchburg Gas and Electric Light Company</u>		3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (WHEN KNOWN) <u>15 12 10 10 10 1</u>																																										
2. LOCATION OF OFFICE WHERE ADDITIONAL INFORMATION MAY BE OBTAINED <u>285 John Fitch Highway</u> Number and Street <u>Fitchburg</u> <u>Worcester</u> City and County <u>Massachusetts</u> <u>01420-5993</u> State and Zip Code		4. HEADQUARTERS NAME & ADDRESS IF DIFFERENT 																																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="3"></th> <th colspan="4">STEEL</th> <th rowspan="3">PLASTIC</th> <th rowspan="3">CAST/ WROUGHT IRON</th> <th rowspan="3">DUCTILE IRON</th> <th rowspan="3">COPPER</th> <th rowspan="3">OTHER</th> <th rowspan="3">OTHER</th> </tr> <tr> <th colspan="2">UNPROTECTED</th> <th colspan="8">CATHODICALLY PROTECTED</th> </tr> <tr> <th>BARE</th> <th>COATED</th> <th>BARE</th> <th>COATED</th> </tr> <tr> <td>MILES OF MAINS</td> <td></td> <td>82</td> <td></td> <td>117</td> <td>22</td> <td>82</td> <td>3</td> <td></td> <td></td> <td></td> </tr> </table>				STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	OTHER	UNPROTECTED		CATHODICALLY PROTECTED								BARE	COATED	BARE	COATED	MILES OF MAINS		82		117	22	82	3									
	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON							COPPER	OTHER	OTHER																												
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2. MILES OF MAINS IN SYSTEM AT END OF YEAR <u>306</u>																																												
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PLASTIC 1. PVC																																												
3. ABS																																												
OTHER																																												
3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR <u>11,229</u> AVERAGE SERVICE LENGTH <u>55</u> FEET																																												
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MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"																																						
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OTHER																																												

PART C - TOTAL LEAKS			PART D - TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED FOR REPAIR
CAUSE	ELIMINATED/REPAIRED DURING YEAR		0
	Mains	Services	
CORROSION	7	7	
OUTSIDE FORCE	0	0	
MATERIAL DEFECT	0	0	PART E - PERCENT OF UNACCOUNTED FOR GAS
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR 47			
PART F - ADDITIONAL INFORMATION			
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>			
PART G - PREPARER AND AUTHORIZED SIGNATURE			
<div style="border: 1px solid black; height: 150px; width: 100%;"></div>			

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ANNUAL REPORT FOR CALENDAR YEAR 1999

GAS DISTRIBUTION SYSTEM

INITIAL REPORT ☒
SUPPLEMENTAL REPORT ☐

PART A - OPERATOR INFORMATION DOT USE ONLY

DOT USE ONLY

1. NAME OF COMPANY OR ESTABLISHMENT
Fitchburg Gas and Electric Light Company

3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (WHEN KNOWN)
5 / 2 / 0 / 0 / 0

2. LOCATION OF OFFICE (HERE: ADDITIONAL INFORMATION)

4. HEADQUARTERS NAME & ADDRESS (IF DIFFERENT)

285 John Fitch Highway

Number and Street

Fitchburg Worcester

City and County

Massachusetts 01420-5993

State and Zip Code

5. STATES IN WHICH SYSTEM OPERATES Massachusetts

PART B - SYSTEM DESCRIPTION

Report miles of main and number of services in system at end of year

1. GENERAL

	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	OTHER
	UNPROTECTED		CATHODICALLY PROTECTED							
	BARE	COATED	BARE	COATED						
MILES OF MAINS		82		17	25	82	3			
NO. OF SERVICES		1094		2831	1140	6147				

2. MILES OF MAINS IN SYSTEM AT END OF YEAR 309

MATERIAL	UNKNOWN	2" OR LESS	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8" THRU 12"	OVER 12"
STEEL		59	82	58		
DUCTILE IRON			3			
COPPER						
CAST/WROUGHT IRON		3	63	14	1	1
PLASTIC 1. PVC						
2. PE		8	12	5		
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		70	160	77	1	1

3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR 11,212

AVERAGE SERVICE LENGTH 55 FEET

MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"
STEEL		2733	1148	44		
DUCTILE IRON						
COPPER						
CAST/WROUGHT IRON		397	5746	4		
PLASTIC 1. PVC						
2. PE		651	472	17		
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		3781	7366	65		

COPY

PART C - TOTAL LEAKS			PART D - TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED FOR REPAIR	
CAUSE	ELIMINATED/REPAIRED DURING YEAR Mains	Services	0	
CORROSION	4			
THIRD PARTY	5			
OUTSIDE FORCE				
CONSTRUCTION				
MATERIAL DEFECT				
OTHER	303	147		
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR			15	
PART E - PERCENT OF UNACCOUNTED FOR GAS				
Unaccounted for gas as a percent of total input for year ending 6/30 1.96%				
PART F - ADDITIONAL INFORMATION				
PART G - PREPARER AND AUTHORIZED SIGNATURE				
<p>Prepared by (type/print) _____ telephone _____</p> <p>Name and Title of Person Signing _____ telephone _____ Authorized Signature _____</p>				

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Research and Special Programs Administration

ANNUAL REPORT FOR CALENDAR YEAR 2000

GAS DISTRIBUTION SYSTEM

INITIAL REPORT
SUPPLEMENTAL R

PART A - OPERATOR INFORMATION DOT USE ONLY

DOT USE ONLY

1. NAME OF COMPANY OR ESTABLISHMENT
Fitchburg Gas and Electric Light Company

2. LOCATION OF OFFICE WHERE ADDITIONAL INFORMATION MAY BE OBTAINED
285 John Fitch Highway
Number and Street
Fitchburg Worcester
City and County
Massachusetts 01420-5993
State and Zip Code

3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (WHE)
1512101001

4. HEADQUARTERS NAME & ADDRESS IF DIFFERENT

5. STATES IN WHICH SYSTEM OPERATES Massachusetts

PART B - SYSTEM DESCRIPTION:

Report miles of main and number of services in system at end of year

1. GENERAL

	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	OTHER
	UNPROTECTED		CATHODICALLY PROTECTED							
	BARE	COATED	BARE	COATED						
MILES OF MAINS		82		117	28	80	3			
NO. OF SERVICES	3025	1082		5848	1371	30				

2. MILES OF MAINS IN SYSTEM AT END OF YEAR

MATERIAL	UNKNOWN	2" OR LESS	OVER 2"	OVER 4"	OVER 8"	OVER 12"
STEEL		59	82	58		
DUCTILE IRON			3			
COPPER						
CAST/WROUGHT IRON		3	61	14	1	1
PLASTIC						
1. PVC						
2. PE		8	13	7		
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		70	159	79	1	1

3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

AVERAGE SERVICE LENGTH 55 FEET

MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"
STEEL		3109	6803	43		
DUCTILE IRON						
COPPER						
CAST/WROUGHT IRON			26	4		
PLASTIC						
1. PVC						
2. PE		810	542	18	1	
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		3919	7371	65	1	

PART C - TOTAL LEAKS			PART D - TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED FOR REPAIR
CAUSE	ELIMINATED/REPAIRED DURING YEAR Mains Services		
CORROSION			0
THIRD PARTY			
OUTSIDE FORCE			
CONSTRUCTION DEFECT			
MATERIAL DEFECT			
OTHER	299	236	
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR 83			
PART E - PERCENT OF UNACCOUNTED FOR GAS			
Unaccounted for gas as a percent of total input for year ending 6/30 1.2 %			
PART F - ADDITIONAL INFORMATION			
PART G - PREPARER AND AUTHORIZED SIGNATURE			
<div style="display: flex; justify-content: space-between;"> <div> <p>Prepared by (type/print) _____</p> <p>Robert E. Bisson, Director</p> <p>Name and Title of Person Signing</p> </div> <div> <p>telephone _____</p> <p>978/353-3277</p> <p>telephone</p> </div> <div> <p>_____</p> <p>Robert E. Bisson</p> <p>Authorized Signature</p> </div> </div>			

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ANNUAL REPORT FOR CALENDAR YEAR 19/2001 GAS DISTRIBUTION SYSTEM

INITIAL REPORT ☐
SUPPLEMENTAL REPC

PART A - OPERATOR INFORMATION DOT USE ONLY

DOT USE ONLY

1. NAME OF COMPANY OR ESTABLISHMENT

Unitil / Fitchburg Gas & Electric

3. OPERATOR'S 5 DIGIT IDENTIFICATION NUMBER (WHEN KI

152 000 / /

2. LOCATION OF OFFICE WHERE ADDITIONAL INFORMATION MAY BE OBTAINED

285 John Fitch Highway

Number and Street

Fitchburg, Worcester

City and County

01420-5993

State and Zip Code

4. HEADQUARTERS NAME & ADDRESS IF DIFFERENT

5. STATES IN WHICH SYSTEM OPERATES MA

PART B - SYSTEM DESCRIPTION

Report miles of main and number of services in system at end of year

1. GENERAL

	STEEL				PLASTIC	CAST/ WROUGHT IRON	DUCTILE IRON	COPPER	OTHER	OTHER
	UNPROTECTED		CATHODICALLY PROTECTED							
	BARE	COATED	BARE	COATED						
MILES OF MAINS		81		117	31	78	3			
NO. OF SERVICES	2917	1054		5848	1604	29				

2. MILES OF MAINS IN SYSTEM AT END OF YEAR 310

MATERIAL	UNKNOWN	2" OR LESS	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8" THRU 12"	OVER 12"
STEEL		59	81	58		
DUCTILE IRON			3			
COPPER						
CAST/WROUGHT IRON		3	60	13	1	1
PLASTIC						
1. PVC						
2. PE		9	14	8		
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		71	158	79	1	1

3. NUMBER OF SERVICES IN SYSTEM AT END OF YEAR

AVERAGE SERVICE LENGTH 55 FEET

MATERIAL	UNKNOWN	1" OR LESS	OVER 1" THRU 2"	OVER 2" THRU 4"	OVER 4" THRU 8"	OVER 8"
STEEL		3093	6685	41		
DUCTILE IRON						
COPPER						
CAST/WROUGHT IRON			25	4		
PLASTIC						
1. PVC						
2. PE		971	611	21	1	
3. ABS						
OTHER						
OTHER						
SYSTEM TOTALS		4064	7321	66	1	

PART C - TOTAL LEAKS			PART D - TOTAL NUMBER OF LEAKS ON FEDERAL LAND REPAIRED OR SCHEDULED FOR REPAIR
CAUSE	ELIMINATED/REPAIRED DURING YEAR		0
	Mains	Services	
CORROSION			
THIRD PARTY			
OUTSIDE FORCE			
CONSTRUCTION DEFECT			
MATERIAL DEFECT			PART E - PERCENT OF UNACCOUNTED FOR GAS Unaccounted for gas as a percent of total input for year ending 6/30 <u>1.03</u> %
OTHER	491	10	
NUMBER OF KNOWN SYSTEM LEAKS AT END OF YEAR SCHEDULED FOR REPAIR 86			
PART F - ADDITIONAL INFORMATION			

PART G - PREPARER AND AUTHORIZED SIGNATURE

ROBERT E. BISSON

Prepared by (type/print)

1 978-353-3277

telephone

ROBERT E. BISSON, DIRECTOR

Name and Title of Person Signing

1

telephone

Robert E. Bisson

Authorized Signature

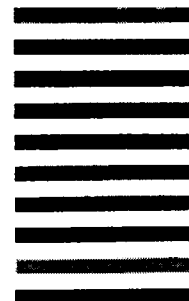
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